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PATENT

FLORAL SLEEVE HAVING EXPANDABLE SIDEWALLSCROSS REFERENCE TO RELATED APPLICATIONS

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[0001] The present application is a continuation of 09/621,605, filed July 21, 2000, which is a continuation of U.S. Serial No. 09/146,162, filed September 2, 1998, now U.S. Patent No. 6,105,310, which is a continuation-in-part of U.S. Serial No. 09/064,460, filed April 22, 1998, now U.S. Patent No. 6,151,830, which is a continuation-in-part of U.S. Serial No. 08/788,616, filed January 27, 1997, now U.S. Patent 5,749,171, which is a continuation-in-part of U.S. Serial No. 08/237,078, filed May 3, 1994, now U.S. Patent No. 5,625,979. Each of these applications is hereby incorporated by reference herein in its entirety.

FIELD OF THE INVENTION

[0002] This invention generally relates to sleeves, and, more particularly, sleeves used to wrap flower pots containing floral groupings and/or mediums containing floral groupings, and methods of using same.

BRIEF DESCRIPTION OF THE DRAWINGS

[0003] Figure 1 is a perspective view of a sleeve having expansion elements and having an upper detachable portion and constructed in accordance with the present invention.

[0004] Figure 2 is a perspective view of another sleeve having an upper detachable portion and constructed in accordance with the present invention.

[0005] Figure 3 is an elevational view of a sleeve having a gusset constructed in accordance with the present invention.

[0006] Figure 4 is an elevational view of another sleeve constructed in accordance with the present invention.

[0007] Figure 5 is an elevational view of another sleeve constructed in accordance with the present invention.

[0008] Figure 6 is an elevational view of another sleeve constructed in accordance with the present invention.

[0009] Figure 7 is an elevational view of a sleeve having a connecting bonding material on the interior thereof.

[0010] Figure 8 is a perspective view of an opened version of the sleeve of Figure 1 having a potted plant disposed therein.

[0011] Figure 9 is a perspective view of a potted plant covered by a sleeve such as the sleeve of any one of the sleeves of Figures 1-8.

[0012] Figure 10 is an elevational view of a potted plant about to be disposed within a sleeve of the present invention.

[0013] Figure 11 is an elevational view of the potted plant of Figure 10 partially disposed within the sleeve of Figure 10.

[0014] Figure 12 is an elevational view of the potted plant of Figure 10 fully disposed within the sleeve of Figure 10, wherein the arrows indicate outward expansion of portions of the sleeve.

[0015] Figure 13 is a perspective view of a sleeve of the present invention showing the sleeve in an opened condition and wherein the sleeve comprises pleated folds.

[0016] Figure 14 is a perspective view of a sleeve similar to the sleeve of Figure 13 except without an upper sleeve portion and with the skirt extended.

[0017] Figure 15 is a perspective view of a sleeve similar to the sleeve of Figure 13 except the expansion elements do not extend completely to the upper end and lower ends of the sleeve and extend at various lengths longitudinally.

[0018] Figure 16 is a cross sectional view of the sleeve of Figure 15 taken along the line of 16-16 thereof.

[0019] Figure 17 is a perspective view of another version of a sleeve constructed in accordance with the present invention wherein the sleeve comprises z-shaped folds.

[0020] Figure 18 is a perspective view of a sleeve similar to the sleeve of Figure 17 except without an upper sleeve portion and with the skirt extended.

[0021] Figure 19 is a perspective view of a sleeve similar to the sleeve of Figure 17 except the z-shaped folds do not extend completely to the upper end and lower end of the sleeve.

[0022] Figure 20 is a cross sectional view of the sleeve of Figure 19 taken along the line 20-20 thereof.

[0023] Figure 21 is a perspective view of an alternate version of a sleeve constructed in accordance with the present invention wherein the sleeve comprises fluted or groove-shaped folds.

[0024] Figure 22 is a perspective view of a sleeve similar to the sleeve of Figure 21 except without an upper sleeve portion and with the skirt extended.

[0025] Figure 23 is a perspective view of a sleeve similar to the sleeve of Figure 21 except the fluted or groove-shaped folds do not extend completely to the upper end or lower end of the sleeve.

[0026] Figure 24 is a cross sectional view of the sleeve of Figure 23 taken along the line of 24-24 thereof.

[0027] Figure 25A is an elevational view of a sleeve constructed in accordance with the present invention having a skirt with an upper edge having a crenate or scalloped pattern.

[0028] Figure 25B is an elevational view of a sleeve constructed in accordance with the present invention having a skirt with an upper edge having an inverted crenate or scalloped pattern.

[0029] Figure 25C is an elevational view of a sleeve constructed in accordance with the present invention having a skirt with an upper edge having a crenulate, toothed, or zig-zag pattern.

[0030] Figure 25D is an elevational view of a sleeve constructed in accordance with the present invention having a skirt with an upper edge having a crenelated or rectangular-shaped pattern.

[0031] Figure 25E is an elevational view of a sleeve constructed in accordance with the present invention having a skirt with an upper edge having a diagonal pattern.

[0032] Figure 25F is an elevational view of a sleeve constructed in accordance with the present invention having a skirt with an upper edge having a curved or wavy pattern.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0033] The present invention contemplates a preformed sleeve for covering a pot having an upper end, a lower end, and an outer peripheral surface. The preformed sleeve comprises a base portion having an upper end, a lower end, and an interior space. A skirt portion extends from the upper end of the base portion. The sleeve comprises an expansion element which comprises a plurality of folds

in the base portion and optionally in the skirt portion. The preformed sleeve is initially formed in a flattened condition and may be expanded to an open condition prior to shipment or prior to being disposed about a flower pot. The folds may extend entirely circumferentially about the base portion, or may extend only partially circumferentially about the base portion. A bonding material may be disposed on an inner peripheral surface of the base portion for connecting the sleeve to the pot. The expansion element functions to cause the base portion to conform to the shape of the pot when the pot is disposed within the sleeve. The preformed sleeve may further comprise a detachable upper sleeve portion generally sized to enclose a floral grouping and which when detached may allow the skirt portion, if present, to extend away from the base portion when the pot is disposed within the base portion of the sleeve. The upper portion when present may be detachable via perforations, tear strips, weakened areas, or zippers. The upper sleeve portion may have an extended upper portion for serving as a handle or support device. The folds or expansion elements may extend the entire length from the lower end of the base portion to the upper end of the sleeve or may extend only an intermediate distance therebetween.

[0034] The expansion element may be a plurality of vertical pleats, a plurality of vertical folds each having a Z-shaped cross

section, a plurality of vertical accordion-type folds, or other similar types of expandable forms.

[0035] The preformed sleeve may form part of a plant package when used in conjunction with a pot disposed within the inner retaining space of the base portion of the preformed sleeve, the pot having a floral grouping disposed therein, and wherein the pot is substantially surrounded and encompassed by the base portion and the floral grouping is substantially surrounded and enclosed by the upper sleeve portion when it forms a part of the preformed sleeve.

[0036] Further, the upper sleeve portion when present extends from the upper end of the skirt portion, or may be connected to the base portion. When the upper sleeve portion is connected to the base portion, it may be connected to an inner peripheral surface of the base portion, leaving the skirt portion exposed, or it may be attached to the outer peripheral surface of the base portion, thereby enclosing the skirt portion until it is detached from the base portion.

[0037] The base portion and the skirt portion of the preformed sleeve may be constructed from a first material and the upper sleeve portion constructed from a second material different from the first material. The base portion and the upper sleeve portion of the preformed sleeve may be constructed from a first material and the skirt portion constructed from a second material different from the first material. The preformed sleeve may comprise a

portion of a plant package which additionally comprises a pot disposed within the sleeve, the pot having a floral grouping disposed therein, and wherein the pot is substantially surrounded and encompassed by the base portion.

[0038] These embodiments and others of the present invention are now described in more detail below. It will be appreciated that the examples provided herein are not intended to limit the scope and extent of the claimed invention but are only intended to exemplify variations of the embodiments of the invention contemplated herein.

[0039] The Embodiments and Methods of Use of Figures 1-25F

[0040] Shown in Figure 1 and designated therein by the general reference numeral 10 is a flexible preformed sleeve (also referred to herein as sleeve) of unitary construction. The sleeve 10 preferably initially comprises a flexible flat collapsed piece of material which is openable in the form of a tube or sleeve which has a closed bottom, or a closed bottom having drainage holes. Prior to shipment to the user, or prior to use by the user, the sleeve 10 may be formed in an opened frusto-conical configuration. The sleeve 10 is preferably tapered outwardly from the lower end toward a larger diameter at its upper end 12. In its flattened state the sleeve 10 has an overall trapezoidal or modified trapezoidal shape, and when opened is substantially frusto-conical

to coniform. It will be appreciated, however, that the sleeve 10 may comprise variations on the aforementioned shapes or may comprise significantly altered shapes such as square or rectangular, wherein the sleeve 10 when opened has a cylindrical form, as long as the sleeve 10 functions in accordance with the present invention in the manner described herein.

[0041] The sleeve 10 has the upper end 12, a lower end 14, an outer peripheral surface 16 and, in its flattened state, has a first side 18 and a second side 20. The sleeve 10 has an opening 22 at the upper end 12 and is closed with a bottom at the lower end 14. The sleeve 10 also has an inner peripheral surface 24 which, when the sleeve 10 is opened, defines and encompasses an inner retaining space 23. A portion of the lower end 14 may be inwardly or outwardly folded to form one or more gussets 26 constructed in a manner well known to one of ordinary skill in the art as shown in Figure 1 for permitting a circular bottom of an object such as a potted plant, to be disposed into the inner retaining space 23 such that the circular bottom is positioned substantially adjacent the lower end 14 of the sleeve 10. Further the lower end 14 may be constructed in the manner shown in copending U.S. Serial No. 08/606,957, the specification of which is hereby incorporated herein in its entirety. Figure 2 shows a sleeve 10a formed without a gusset in the lower end 14a.

[0042] The sleeve 10 is generally frusto-conically shaped, but the sleeve 10 may be, by way of example but not by way of limitation, cylindrical, frusto-conical, a combination of both frusto-conical and cylindrical, or any other shape, as long as the sleeve 10 functions as described herein as noted above. Further, the sleeve 10 may comprise any shape, whether geometric, non-geometric, asymmetrical and/or fanciful as long as it functions in accordance with the present invention. The sleeve 10 may also be equipped with drainage holes (e.g., one or more holes) in a base portion or bottom thereof or ventilation holes (not shown) in the base portion or upper sleeve portion, or can be made from permeable or impermeable materials.

[0043] The material from which the sleeve 10 is constructed preferably has a thickness in a range from about 0.1 mil to about 30 mils. Often, the thickness of the sleeve 10 is in a range from about 0.5 mil to about 10 mils. Preferably, the sleeve 10 has a thickness in a range from about 1.0 mil to about 5 mils. More preferably, the sleeve 10 is constructed from a material which is flexible, semi-rigid, rigid, or any combination thereof. The sleeve 10 may be constructed of a single layer of material or a plurality of layers of the same or different types of materials. Any thickness of the material may be utilized as long as the material functions in accordance with the present invention as described herein. The layers of material comprising the sleeve 10

may be connected together or laminated or may be separate layers. Such materials used to construct the sleeve 10 are described in U.S. Patent No. 5,111,637 entitled "Method For Wrapping A Floral Grouping" issued to Weder et al., on May 12, 1992, which is hereby incorporated herein by reference. Any thickness of material may be utilized in accordance with the present invention as long as the sleeve 10 may be formed as described herein, and as long as the formed sleeve 10 may contain at least a portion of a pot or potted plant or a floral grouping, as described herein. Additionally, an insulating material such as bubble film, preferable as one of two or more layers, can be utilized in order to provide additional protection for the item, such as the floral grouping, contained therein.

[0044] In one embodiment, the sleeve 10 may be constructed from a sheet comprising two polypropylene films. The polypropylene film comprising the sleeve 10 may be connected together or laminated or may be separate layers. In an alternative embodiment, the sleeve 10 may be constructed from only one of the polypropylene films.

[0045] The sleeve 10 is constructed from any suitable material that is capable of being formed into a sleeve and wrapped about a pot and a floral grouping disposed therein. Preferably, the material comprises untreated or treated paper, metal foil, polymeric film, non-polymeric film, woven or nonwoven fabric, or

natural or synthetic fabric, cardboard, fiber, cloth, burlap, or laminations or combinations thereof.

[0046] The term "polymeric film" means a man-made polymer such as a polypropylene or a naturally occurring polymer such as cellophane. A polymeric film is relatively strong and not as subject to tearing (substantially non-tearable), as might be the case with paper or foil.

[0047] The material comprising the sleeve 10 may vary in color and may consist of designs or decorative patterns which are printed, etched, and/or embossed thereon using inks or other printing materials. An example of an ink which may be applied to the surface of the material is described in U.S. Patent No. 5,147,706 entitled "Water Based Ink On Foil And/Or Synthetic Organic Polymer" issued to Kingman on Sep. 15, 1992 and which is hereby incorporated herein by reference.

[0048] In addition, the material may have various colorings, coatings, flocking and/or metallic finishes, or other decorative surface ornamentation applied separately or simultaneously or may be characterized totally or partially by pearlescent, translucent, transparent, iridescent, neon, or the like, qualities. The material may further comprise, or have applied thereto, one or more scents. Each of the above-named characteristics may occur alone or in combination and may be applied to the upper and/or lower surface of the material comprising the sleeve 10. Moreover, portions of

the material used in constructing the sleeve 10 may vary in the combination of such characteristics. The material utilized for the sleeve 10 itself may be opaque, translucent, transparent, or partially clear or tinted transparent.

[0049] The term "floral grouping" as used herein means cut fresh flowers, artificial flowers, a single flower or other fresh and/or artificial plants or other floral materials and may include other secondary plants and/or ornamentation or artificial or natural materials which add to the aesthetics of the overall floral grouping. The floral grouping comprises a bloom or foliage portion and a stem portion. Further, the floral grouping may comprise a growing potted plant having a root portion (not shown) as well. However, it will be appreciated that the floral grouping may consist of only a single bloom or only foliage, or a botanical item (not shown), or a propagule (not shown). The term "floral grouping" may be used interchangeably herein with both the terms "floral arrangement" and "potted plant". The term "floral grouping" may also be used interchangeably herein with the terms "botanical item" and/or "propagule."

[0050] The term "growing medium" when used herein means any liquid, solid or gaseous material used for plant growth or for the cultivation of propagules, including organic and inorganic materials such as soil, humus, perlite, vermiculite, sand, water, and including the nutrients, fertilizers or hormones or

combinations thereof required by the plants or propagules for growth.

[0051] The term "botanical item" when used herein means a natural or artificial herbaceous or woody plant, taken singly or in combination. The term "botanical item" also means any portion or portions of natural or artificial herbaceous or woody plants including stems, leaves, flowers, blossoms, buds, blooms, cones, or roots, taken singly or in combination, or in groupings of such portions such as bouquet or floral grouping.

[0052] The term "propagule" when used herein means any structure capable of being propagated or acting as an agent of reproduction including seeds, shoots, stems, runners, tubers, plants, leaves, roots or spores.

[0053] In accordance with the present invention, a bonding material may be disposed on a portion of the sleeve 10 to assist in holding the sleeve 10 to the pot having the floral grouping therein when the pot is disposed within the sleeve or to assist in closing or sealing the upper portion of the sleeve 10 or in adhering the sleeve 10 to the pot after the pot has been disposed therein, as will be discussed in further detail below.

[0054] It will be understood that the bonding material may be disposed as a strip or block on a surface of the sleeve 10. The bonding material may also be disposed upon either the outer peripheral surface 16 or the inner peripheral surface 24 of the

sleeve 10, as well as upon the pot. Further, the bonding material may be disposed as spots of bonding material, or in any other geometric, non-geometric, asymmetric, or fanciful form, and in any pattern including covering either the entire inner peripheral surface and/or outer peripheral surface of the sleeve 10 and/or the pot or pot cover. The bonding material may be covered by a cover or release strip which can be removed prior to the use of the sleeve, pot or pot cover. The bonding material can be applied by means known to those of ordinary skill in their art. One method for disposing a bonding material, in this case an adhesive, is described in U.S. Patent No. 5,111,637 entitled "Method For Wrapping A Floral Grouping" issued to Weder et al., on May 12, 1992, which has been incorporated by reference above.

[0055] The term "bonding material" when used herein means an adhesive, frequently a pressure sensitive adhesive, or a cohesive. When the bonding material is a cohesive, a similar cohesive material must be placed on the adjacent surface for bondingly contacting and bondingly engaging with the cohesive material. The term "bonding material" also includes materials which are heat sealable and, in this instance, the adjacent portions of the material must be brought into contact and then heat must be applied to effect the seal. The term "bonding material" also includes materials which are sonic sealable and vibratory sealable. The term "bonding material" when used herein also means a heat sealing

lacquer or hot melt material which may be applied to the material and, in this instance, heat, sound waves, or vibrations, also must be applied to effect the sealing.

[0056] Alternatively, a cold seal adhesive may be utilized as the bonding material. The cold seal adhesive adheres only to a similar substrate, acting similarly as a cohesive, and binds only to itself. The cold seal adhesive, since it bonds only to a similar substrate, does not cause a residue to build up on equipment, thereby both permitting much more rapid disposition and use of such equipment to form articles and reducing labor costs. Further, since no heat is required to effect the seal, the dwell time, that is, the time for the sheet of material to form and retain the shape of an article, such as a flower pot cover or flower pot, is reduced. A cold seal adhesive binds quickly and easily with minimal pressure, and such a seal is not readily releasable. This characteristic is different from, for example, a pressure sensitive adhesive.

[0057] As shown in Figure 1, the sleeve 10 in one embodiment is demarcated into an upper portion 30 and a lower portion 32. The lower portion 32 of the sleeve 10 is generally sized to contain a potted plant. The upper portion 30 of the sleeve 10 is sized to substantially surround and enclose a floral grouping contained within the potted plant disposed within the lower portion 32 of the sleeve 10. The sleeve 10 is demarcated into the upper portion 30

and the lower portion 32 by a detaching element 34 for enabling the detachment of the upper portion 30 of the sleeve 10 from the lower portion 32 of the sleeve 10. In the present version, the detaching element 34 preferably is a plurality of generally curved, scalloped, laterally-oriented or alternately diagonally-oriented perforations which extend circumferentially across the outer peripheral surface 16 of the sleeve 10 from the first side 18 to the second side 20. The term "detaching element," as used generally herein, means any element, or combination of elements, or features, such as, but not by way of limitation, perforations, tear strips, zippers, and any other devices or elements of this nature known in the art, or any combination thereof, which enable the tearing away or detachment of one object from another. Therefore, while perforations are shown and described in detail herein, it will be understood that tear strips, zippers, or any other "detaching elements" known in the art, or any combination thereof, could be substituted therefore and/or used therewith.

[0058] In a preferred embodiment, as shown in Figure 1, the lower portion 32 of the sleeve 10 further comprises a base portion 36, and a skirt portion 38. The base portion 36 comprises that part of the lower portion 32 which, when a pot is placed into the lower portion 32, has an inner peripheral surface 24 which is substantially adjacent to and expands to surround the outer peripheral surface of the pot (not shown). The skirt portion 38

comprises that portion of the lower portion 32 which extends beyond an upper rim of the pot and adjacent at least a portion, generally a lower portion, of the floral grouping contained within the pot and which is left to freely extend at an angle, inwardly or outwardly, from the base portion 36 when the upper portion 30 of the sleeve 10 is detached from the lower portion 32 of the sleeve 10 by actuation of the detaching element 34. In the intact sleeve 10, the skirt portion 38 comprises an upper peripheral edge congruent with the detaching element 34 which is connected to a lower peripheral edge, also congruent with the detaching element 34, of the upper portion 30 of the sleeve 10. In Figure 1, the upper peripheral edge of the skirt portion 38 is congruent with a series of alternately diagonally-oriented lines of perforations which together form a zig-zag and comprise the detaching element 34.

[0059] The upper portion 30 of the sleeve 10 may also have an additional vertical detaching element comprising a plurality of vertical perforations (not shown) for facilitating removal of the upper portion 30 and which are disposed more or less vertically therein extending between the detaching element 34 of the sleeve 10 and the upper end 12. The upper portion 30 of the sleeve 10 is separable from the lower portion 32 of the sleeve 10 by tearing the upper portion 30 along both the vertical perforations (when present) and the detaching element 34, thereby separating the upper

portion 30 from the lower portion 32 of the sleeve 10. The lower portion 32 of the sleeve 10 remains disposed as the base portion 36 about the pot and as the skirt portion 38 about the floral grouping forming a decorative cover 48 (Figure 9) which substantially surrounds and encompasses the potted plant.

[0060] It will be understood by a person of ordinary skill in the art that equipment and devices for forming floral sleeves are commercially available, and are well known to a person of ordinary skill in the art. Therefore, further discussion of the construction of the covers described herein is not deemed necessary.

[0061] As noted above, the sleeve 10 may have one or more gussets 26 formed in the bottom of the lower end 14 such as that seen in sleeve 10 in Figure 1 for allowing expansion of the lower end 14 when an object with a broad lower end such as a pot is disposed therein. In another version of the present invention a strip of bonding material (not shown) may be disposed adjacent the upper end 12 of the sleeve 10 for allowing the upper end 12 to be sealed for enclosing the upper portion 30 of the sleeve 10 about a floral grouping disposed therein. In another version of the present invention, a flap (not shown) can be positioned at the upper end 12 which can be folded over and sealed with a flap bonding strip to an adjacent portion of the outer peripheral surface 16 of the sleeve 10 near the upper end 12 thereof. Other versions of the sleeve 10

may comprise ventilation holes or drainage holes (not shown) in the lower portion 32 for allowing movement of gases or moisture to and away from the inner retaining space 23 of the sleeve 10.

[0062] In another version of the present invention, the sleeve 10 may comprise an inner strip or area of bonding material (not shown) disposed upon a portion of the inner peripheral surface 24 of the lower portion 32 which functions to enable the inner peripheral surface 24, or a portion thereof, to be bondingly connected to the outer peripheral surface of the pot disposed therein causing the sleeve 10 to be bondingly connected to the pot.

[0063] In another embodiment, the sleeve 10, may further comprise an extended portion having apertures therein (not shown), which portion extends away from a portion of the upper end 12 of the sleeve 10 for allowing the sleeve 10 to be supported on a support assembly commercially available and known by one of ordinary skill in the art such as a pair of wickets for shipment, storage, assembly of the sleeve 10, placement of the pot within the sleeve 10, or other functions known in the art. The extension may have a plurality of perforations or other detaching elements for allowing the extension to be removed from the upper end 12 after the sleeve 10 has been provided for use as described elsewhere herein. Alternatively, the sleeve 10 may be supported by apertures in the upper portion 30. In another version of the invention, the sleeve 10 has an extended portion comprising a handle (not shown)

for carrying a potted plant package by the sleeve 10. The sleeve 10 may further comprise a detaching element comprising perforations for removing the handle at a later time.

[0064] Other versions of the present invention may comprise additional perforated areas (not shown) for enhancing angularity of the extension of the skirt portion 38 away from the base portion 36 after the upper portion 30 of the sleeve 10 has been detached. Examples of such sleeves described above herein comprising these additional features are shown in Figures 6-8 and 14-20 of U.S. Patent No. 5,625,979 and the corresponding descriptions therein, which are specifically hereby incorporated herein by reference.

[0065] The sleeve 10 herein is further contemplated as having an expansion element comprising at least one vertically oriented fold 40 which may extend from the upper end 12 to the lower end 14 of the sleeve 10 or some intermediate distance therebetween.

[0066] The one or more folds 40 extend at least from a portion of the base portion 36 to a portion of the skirt portion 38 and may extend into the upper portion 30 as shown in Figure 1. The expansion elements, comprising the one or more folds 40, functions to allow expansion of a portion of the base portion 36 and optionally of the skirt portion 38 of the sleeve 10 when a pot is inserted into the inner retaining space 23 of the sleeve 10.

[0067] As shown in Figure 1, each fold 40 of the sleeve 10 comprises one or more areas of excess material shaped in the form

of a pleat which extends from the base portion 36 to the upper end 12 of the sleeve 10. Preferably the overlapping surfaces of the folds are substantially unconnected to each other along their lengths. As used herein, the term "excess material" means an amount of material which has a greater surface area than would actually be necessary to form that portion of the plant covering were that portion of the plant covering actually flattened. The fold 40 can expand causing portions of the upper sleeve portion 30 and/or the skirt portion 38 to extend angularly from the base portion 36. The folds 40 comprising the expansion elements functions to enable the base portion 36 to expand when a pot is disposed therein allowing the base portion 36 to conform substantially to the shape of the pot.

[0068] The folds 40 in the sleeve 10 contemplated herein may be constructed in such a manner that each fold 40 extends completely from the lower end 14 of the sleeve 10 to the upper end 12 of the sleeve 10 as shown in Figure 1. Alternatively as shown in Figure 2, a sleeve 10a may comprise folds 40a which are parallel such that some of the folds 40a extend the entire distance from the upper end 12a to the lower end 14a, while other folds 40a, particularly those near sides 18a and 20a, extend from the upper end 12a only part of the distance toward the lower end 14a of the sleeve 10a and may intersect sides 18a or 20a. The folds 40a in sleeve 10a are substantially parallel when the sleeve 10a is in the flattened

condition. Henceforth the term "tapering folds" will be used in reference to the pattern of folds in the embodiment of sleeve 10 of Figure 1 while the term "parallel folds" will be used in reference to the pattern of folds in the embodiment of sleeve 10a of Figure 2.

[0069] Attention is now drawn to the embodiment of the present invention designated by reference numeral 10b in Figure 3. Sleeve 10b is constructed without a detachable upper sleeve portion. Sleeve 10b has tapered folds 40b and has a skirt portion 38b which in the flattened condition extends at an angle from a base portion 36b. The sleeve of Figure 4 designated by the reference numeral 10c is similar to the sleeve 10b except it has folds 40c which are parallel, and has a lower end 14c which has a straight seal. It will of course be understood by a person of ordinary skill in the art that sleeve 10c may be formed with a gusseted bottom, and sleeve 10b, may be formed without a gusseted bottom. Referring now to Figures 5 and 6, sleeves 10d and 10e are similar to sleeves 10b and 10c, respectively, except the angle of the outer edge of a skirt portion 38d and 38e forms a straight line with the outer edge of a base portion 36d and 36e, respectively. The skirt portion of any of the sleeves defined herein may extend at other angles not described herein such as at an inwardly facing angle.

[0070] Shown in Figure 7 is a sleeve 10f which exemplifies an embodiment wherein a bonding material 44 is disposed on an inner

peripheral surface 24f of the sleeve 10f for enabling the sleeve 10f to be connected to a portion of an outer peripheral surface of a pot (not shown) disposed therein.

[0071] Referring now to Figure 8, the sleeve 10 of Figure 1 is shown as having a pot 50 disposed therein, in phantom view. The pot 50 has an upper end 52, a lower end 54, and an outer peripheral surface 56, and has a plant or floral grouping 58 disposed therein. The upper portion 30 of the sleeve 10 surrounds and generally encompasses the floral grouping 58. When the upper portion 30 is detached along the detaching element 34, the skirt portion 38 extends away from an upper end 37 of the base portion 36, for example in a manner as shown in Figure 9, which shows the decorative cover 48 which is left surrounding the pot 50 after the upper sleeve portion 30 has been detached. It will be understood by a person of ordinary skill in the art that the embodiments of Figures 8 and 9 exemplify the combination of any of the sleeves described in Figures 1-7 as will be obvious in light of the disclosure provided herewith.

[0072] It will generally be desired to use the sleeve 10 as a covering for a potted plant (Figures 8-9). As shown in Figure 8, the lower end 54 of the pot 50 is closed but may have holes (not shown) for permitting water drainage. The term "pot" as used herein refers to any type of container used for holding a floral grouping or plant. Examples of pots, used in accordance with the

present invention include, but not by way of limitation, clay pots, wooden pots, plastic pots, pots made from natural and/or synthetic fibers, or any combination thereof. The pot is adapted to receive a floral grouping. The floral grouping may be disposed within the pot along with a suitable growing medium described in further detail below, or other retaining medium, such as a floral foam. It will also be understood that the floral grouping, and any appropriate growing medium or other retaining medium, may be disposed in the sleeve without a pot.

[0073] Referring now to Figures 10-12, a preferred method of how the present invention is employed is shown. Shown in Figure 10 is a sleeve such as the sleeve 10d of Figure 5. The pot 50 is disposed into an inner retaining space 23d of sleeve 10d in a direction indicated by the arrow 60. As the pot 50 is disposed within the sleeve 10d, the pot 50 begins to deform the base portion 36d and begins to cause the folds 40d comprising the expansion element to expand as shown in Figure 11. As the pot 50 is further disposed within the sleeve 10d, the pot 50 causes the base portion 36d to further expand in an outward direction indicated by the arrow 62 to conform to the shape of the pot 50 as shown in Figure 12. As the pot 50 exerts pressure on the inner peripheral surface 24d of the sleeve 10d, the skirt portion 38d is also caused to expand a distance outwardly angularly from the upper end 37 of the base portion 36d. Alternatively, the skirt portion 38d may be caused to

extend at an inward direction (not shown) toward the floral grouping 58.

[0074] Referring now to Figure 13, attention is drawn to the sleeve designated by the general reference numeral 10g which is similar to the sleeve 10 except sleeve 10g has portions therein, designated by the reference numeral 64, which are formed without folds 40g therein. It will be understood by a person of ordinary skill in the art that the size, extent and area of the portions 64 may vary according to the desired structure, performance, and manner of use of the sleeve.

[0075] Shown in Figure 14 is a sleeve 10h, having the pot 50 therein. The sleeve 10h is similar to any of sleeves 10-10g described previously except the folds 40h extend various vertical distances and generally do not extend all the way to the lower end 14h of the sleeve 10h. Figure 15 shows a sleeve 10i which is similar to the sleeve 10h except sleeve 10i has a detachable upper portion 30i. Figure 16 shows a cross-section of sleeve 10i showing the pleated construction of folds 40i and a portion 64 of the sleeve 10i lacking a fold 40i.

[0076] Shown in Figure 17 is a sleeve 10j which is similar to the sleeve 10g except folds, designated by the reference numeral 40j, are z-shaped in cross-section. Sleeve 10k of Figure 18 is similar to sleeve 10h of Figure 14 except folds, designated as folds 40k, are z-shaped in cross-section like the folds 40j of

sleeve 10j. Sleeve 10l (Figure 19) is similar to sleeve 10i of Figure 15 except folds 40l are z-shaped in cross-section. Sleeve 10l is shown in cross-section in Figure 20.

[0077] Shown in Figure 21 is a sleeve 10m which is similar to the sleeve 10g except folds, designated by the reference numeral 40m, are fluted, or accordion-shaped in cross-section. Sleeve 10n of Figure 22 is similar to sleeve 10h of Figure 14 except folds, designated as folds 40n, are fluted, or accordion-shaped in cross-section like the folds 40m of sleeve 10m. Sleeve 10p (Figure 23) is similar to sleeve 10i of Figure 15 except the folds 40p are fluted, or accordion-shaped in cross-section. Sleeve 10p is shown in cross-section in Figure 24.

[0078] The protective "upper sleeve portion" and the "base portion" of the sleeve and components of the present invention may comprise a unitary construction, as described in the versions of the invention exemplified in Figures 1-24, or may comprise separately formed components which are attached together by various bonding materials, as described for example in U.S. Patent No. 5,625,979 mentioned supra.

[0079] In an alternative version of the invention, a bonding material (not shown) may be disposed on the outer peripheral surface 56 of the pot 50 while the sleeve 10-10p is free of a bonding material. In this case, when the pot 50 is disposed into the open sleeve 10-10p, the bonding material on the outer

peripheral surface 56 of the pot 50 engages a portion of the inner peripheral surface 24 of the sleeve 10-10p causing the sleeve 10-10p to be bondingly connected to a portion of the outer peripheral surface 56 of the pot 50.

[0080] In yet another version of the method of the present invention, a bonding material (not shown) may be disposed on both the outer peripheral surface 56 of the pot 50 and the inner peripheral surface 24 of the sleeve 10-10p. In such a case, preferably the bonding material both of the pot 50 and the sleeve 10-10p is a cohesive which allows bonding to a surface covered with the cohesive but not to dissimilar surfaces.

[0081] As shown in Figures 1-24, the skirt portion 38 preferably comprises a plurality of "petals". It will be understood, however, that the design of the skirt portion is not meant to be limited to a "petal" design and may be constructed in any number of other decorative patterns, several being shown in Figures 25A-25F. For example, Figure 25A shows a sleeve 10q having a skirt portion 38q having a crenate or scalloped pattern. Figure 25B shows a sleeve 10r having a skirt portion 38r having a crenate or scalloped pattern which is inverted. Figure 25C shows a sleeve 10s having a skirt portion 38s having a crenulate toothed or zig-zag pattern. Figure 25D shows a sleeve 10t having a skirt portion 38t having a crenelated or rectangular-shaped pattern. Figure 25E shows a sleeve 10u having a skirt portion 38u having a diagonal pattern

slanted upwardly from one side of the sleeve 10u to the other. Figure 25F shows a sleeve 10v having a skirt portion 38v having a curved or wavy pattern. One of ordinary skill in the art will understand these are but a few of the patterns that the perforations may form and one of ordinary skill could contemplate many other suitable patterns.

[0082] The sleeves described herein may be formed by intermittently advancing two separate webs, one or two webs preformed in the form of a tube, or a single web folded double and sealing the longitudinal sides and bottom of the two facing panels then cutting the sleeve thus formed from the webs or web. Machines which can form sleeves from such single webs or pairs of webs are well within the knowledge of one of ordinary skill in the art.

[0083] It should also be noted that for all versions of sleeves described, it may be desirable to have a release material or cover strip covering the adhesive or cohesive bonding material when a bonding material is disposed on any portion of the sleeve for preventing the bonding material from bonding to another surface until the desired time. Further in each of the cases described herein wherein a sleeve is applied to a pot or a covered pot, the sleeve may be applied thereto either by depositing the pot or covered pot downwardly into the open retaining space of the sleeve, or the sleeve may be brought upwardly about the pot or covered pot from below the pot or a covered pot.

[0084] It should be further noted that various features of the versions of the present invention such as closure bonding areas, support extensions, handles, additional perforations, drainage elements, ventilation holes, combinations of material may be used alone or in combination as elements of any of the embodiments described above herein.

[0085] Changes may be made in the construction and the operation of the various components, elements and assemblies described herein or in the steps or the sequence of steps of the methods described herein without departing from the spirit and scope of the invention as defined in the following claims.